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NRO REVIEW COMPLETED

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11 AUG 1964

MEMORANDUM FOR: Chairman, CCPC

SUBJECT: Vehicles, Sensors and Techniques Applicable to Detection
of the Reintroduction of Offensive Missiles into Cuba

REFERENCES: (a) NSAM-311, 10 July 1964 (TS-188561)

(b) Memo for CCPC Members, 21 July 1964 (TS-191888)

1. In response to reference (b), the Directorate for Science and Technology has listed high altitude, manned and unmanned, photographic reconnaissance systems which could assist in surveillance against the reintroduction of offensive missiles into Cuba, or which could be made available in a reasonable time with sufficient priorities. The list is attached as Appendix A.

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3. Our examination of the questions posed by the CCPC surfaced a number of comments and recommendations regarding non-photographic systems and techniques which are contained in Appendix B.

SIGNED

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SA/DD/S&T

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Attachments:

As stated

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Appendix A

| | Reconnaissance Vehicle/Sensors | Capabilities | Limitations | Comments |
|------|--|---|--|---|
| 25X1 | CIA U-2's with J-75 engines/Photo-graphic | Altitude: [redacted] Range : 2800-3100 NM Speed : 390 Knots | [redacted] | 6 aircraft available, [redacted] 2 additional J-75 equipped aircraft available about January 1965. |
| 25X1 | Configuration A cameras Configuration B cameras 112B cameras | Swath width: 36 miles Resolution : approx. 4 feet Stereo : Overlapping Swath width: Horizon-to horizon (approx. 500 miles) Resolution : approx. 2.5 feet Stereo : yes Swath width: 17 miles Resolution : 1 foot Full Stereo | Unable to record thru cloud cover; at night without illumination; or thru dense vegetation, man-made structures and caves. Optimum results depend on light angles, absence of smoke and atmospheric haze, and target contrast. | [redacted] ILLEGIB 4 cameras operational |

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| Reconnaissance Vehicle/Sensors | Capabilities | Limitations | Comments |
|---|--|--|--|
| Photographic Balloons (Available light cameras) | Altitude: 90-100,000 feet Range : Essentially unlimited Resolution: Comparable to the U-2 Comparatively inexpensive on unit basis | Low tracking accuracy, but compensatable by numbers. See U-2 camera limits. | Three available light camera options. |
| CORONA Photographic Satellite (KH-4) NRO25X1 | Altitude: Approx 100 miles Swath Width: 180 nm Resolution: Approx 10 feet Area search capability. Continuous stereo. | Very high unit costs. Limited launch frequency. Resolution too low for Cuban intell objectives. Severe weather restrictions. One to two passes per day | |
| Subsonic Drones | Altitude: 50-60,000 feet Range : 1400 nm Speed : 0.74 Mach Resolution: 2.7 feet Swath Width: 18 nm Swath Length: 255 nm | Probable loss in track accuracy after first leg to \pm 5 nm. | USAF system. Launched from C-130. 11 vehicles in inventory. JCS plans for Cuban employment exist. |
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